

Title (en)
METHOD FOR THE PREPARATION OF CHARCOAL

Title (de)
VERFAHREN ZUR HERSTELLUNG VON HOLZKOHLE

Title (fr)
PROCÉDÉ DE FABRICATION DE CHARBON DE BOIS

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Abstract (en)
[origin: CA3137055A1] The invention relates to a method for producing charcoal, comprising the following steps: a) supplying biomass, in particular wood chips, to a pyrolysis unit, in which the wood chips are pyrolyzed to form a full flow having solid, liquid and gaseous material, b) supplying the full flow and a gasification agent to an oxidation unit, wherein the full flow is oxidized at least in part and pneumatically transported, c) supplying the partially oxidized full flow from the oxidation unit to a substantially vertically arranged reduction unit, wherein the material outlet of the oxidation unit is connected to the reduction unit, wherein the cross-section of the reduction unit grows as the distance from the material outlet of the oxidation unit increases, the flow velocity of the full flow in the reduction unit is adapted to the material of the full flow and to the shape of the flow cross-section of the reduction unit such that a stable packed bed, held in flotation, forms in the reduction unit, d) removing the raw charcoal from the reduction unit via an overflow, e) separating gaseous components in a hot gas filter and collecting the charcoal and f) extinguishing the collected charcoal with water.

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